

Message Text

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PAGE 01 STATE 210906
ORIGIN EB-08

INFO OCT-01 EUR-12 ISO-00 COME-00 DODE-00 NSAE-00
ICA-11 TRSE-00 SOE-02 DOE-15 CIAE-00 ACDA-12 EA-10
AID-05 /076 R

DRAFTED BY EB/ITP/EWT:CECOLE
APPROVED BY EB/ITP/EWT:RPRACHT
COMMERCE/OEA:MKRAVETZ
-----056340 191425Z /14
R 182139Z AUG 78
FM SECSTATE WASHDC
TO AMEMBASSY PARIS

C O N F I D E N T I A L STATE 210906

USOECD, EXCON

E.O. 11652: GDS

TAGS: ESTC, COCOM, US, CH

SUBJECT: U.S. EXPORT OF A COMPUTER SYSTEM TO THE PRC
IL - 1565

REF:A. COCOM DOC N(78) 127 B. 78 STATE A-2224

IN RESPONSE TO FRENCH COMMENTS:
THIS PROPOSED SYSTEM IS NOT ONE THAT PROVIDES OR CONTROLS
MECHANICAL VIBRATIONS.
IT IS A STATIC SYSTEM WHICH DETECTS SOURCE SIGNALS, AMPLI-
FIES THEM 40-100 DB , CONVERTS THEM TO DIGITAL DATA AT
1,200 BITS PER SECOND FOR PROCESSING BY THE HEWLETT-
PACKARD COMPUTER RESOLVING GEOMETRIC FORMULAE TO RESULT IN
LOCATION AND MAGNITUDE OF FAULT.
THE ACOUSTIC EMISSION COMES FROM THE MATERIAL ITSELF, WHEN
UNDER STRESS. FOR EXAMPLE, A GAS PIPE WITH DETECTORS AT
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MANHOLE LOCATIONS PICK UP ACOUSTIC SIGNALS FROM FLAWS IN
THE PIPE WHEN A HEAVY TRUCK IS DRIVEN ON THE ROAD ABOVE THE
PIPES.
ANOTHER EXAMPLE IS A FLAT PIECE OF METAL 25 BY 10 FEET
PLACED UNDER STRESS WITH ACOUSTIC SIGNALS BEING PICKED UP
BY FOUR DETECTORS PLACED IN A PLANNED GEOMETRIC PATTERN.
IF THERE IS NO FLAW IN THE MATERIAL UNDER STRES, THERE ARE

NO ACOUSTIC EMISSIONS TO DETECT OR PROCESS. IF THERE ARE
FLAWS, THEY GROW LARGER GIVING OFF CHARACTERISTIC SIGNALS
IN THE 100,000-400,000 HZ RANGE WITH AMPLITUDE PROPORTIONAL

TO SIZE OF FAULT OR SPEED OF GROWTH (LINEAR MOVEMENT).
THE PROCESS IS NON-REPEATABLE DUE TO THE CHANGES IN THE
FAULT LOCATION AND SIZE WHEN UNDER STRESS.
VANCE

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 jan 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: STRATEGIC TRADE CONTROLS, EXPORT LICENSES
Control Number: n/a
Copy: SINGLE
Draft Date: 18 aug 1978
Decaption Date: 01 jan 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 20 Mar 2014
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1978STATE210906
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Document Unique ID: 00
Drafter: CECOLE
Enclosure: n/a
Executive Order: GS
Errors: N/A
Expiration:
Film Number: D780340-0253
Format: TEL
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1978/newtext/t19780847/aaaabmri.tel
Line Count: 70
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: 8b4be360-c288-dd11-92da-001cc4696bcc
Office: ORIGIN EB
Original Classification: CONFIDENTIAL
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators: n/a
Previous Classification: CONFIDENTIAL
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 19 may 2005
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 1689490
Secure: OPEN
Status: NATIVE
Subject: U.S. EXPORT OF A COMPUTER SYSTEM TO THE PRC IL - 1565
TAGS: ESTC, CH, US, COCOM
To: PARIS
Type: TE
vdkgvwkey: odhc://SAS/SAS.dbo.SAS_Docs/8b4be360-c288-dd11-92da-001cc4696bcc
Review Markings:
Sheryl P. Walter
Declassified/Released
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